

Title (en)
Compression self-ignition internal combustion engine and fuel supply device therefor

Title (de)
Brennkraftmaschine mit Selbstzündung und Brennstoffzuführeinrichtung

Title (fr)
Moteur avec auto-allumage et dispositif de prélèvement de combustible

Publication
EP 1174604 B1 20080102 (EN)

Application
EP 01117479 A 20010719

Priority
JP 2000219548 A 20000719

Abstract (en)
[origin: EP1174604A2] A compression self-ignition internal combustion engine in which combustion of air-fuel mixture in a combustion chamber is made upon self-ignition of the air-fuel mixture under compression by a piston. A high temperature air-fuel mixture field is formed in the combustion chamber, and has a fuel concentration which causes no self-ignition within the combustion chamber. A mixture charge injector is disposed to supply to the air-fuel mixture field a mixture charge which has a fuel concentration higher than that in the air-fuel mixture field and contains fuel and a fluid containing air, at least a part of the fuel being vaporized. <IMAGE>

IPC 8 full level
F02B 1/12 (2006.01); **F02B 3/06** (2006.01); **F02B 7/00** (2006.01); **F02B 23/10** (2006.01); **F02D 41/02** (2006.01); **F02D 41/38** (2006.01); **F02D 41/40** (2006.01); **F02M 61/18** (2006.01); **F02M 71/02** (2006.01)

CPC (source: EP)
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• DE 3802669 A1 19890803 - SALEH ABDEL HALIM DR ING [DE]
• JP H0942116 A 19970210 - TONEAKI YASUNOBU

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